



SecoVac R Retrofill

5 – 15kV Replacement Vacuum Circuit Breakers

Fact Sheet

Overview

GE's IEEE medium-voltage retrofill vacuum circuit breaker is designed to easily replace vacuum circuit breakers in existing switchgear. It is a streamlined solution to update legacy circuit breakers with smart design features such as a simplified mechanism, which reduces maintenance times for customers. This advanced design demonstrates GE's engineering strength in the latest circuit breaker and insulation technology. SecoVac R retrofill vacuum circuit breakers are rated 5kV – 15kV, 1200A – 2000A, 31.5 – 40kA, 50Hz/60Hz.

Standard Features

- Fast-acting 3-cycle circuit breaker
- Direct replacement for existing vacuum circuit breakers (both standard and roll-in design)
- Smart, reliable design; fully tested, GE-manufactured breaker
- Front access mechanism design for easier field maintenance
- Designed with fewer parts to reduce equipment downtime and simplify service
- Environmentally friendly solid epoxy resin insulation
- Complete interlocking system to prevent incorrect operation
- Open and Close mechanism module is universal to all SecoVac R ratings, allowing for reduced maintenance time and low replacement cost
- Primary disconnect finger cluster is built of silver plated copper and tested for continuous and short time current ratings



Technical Data

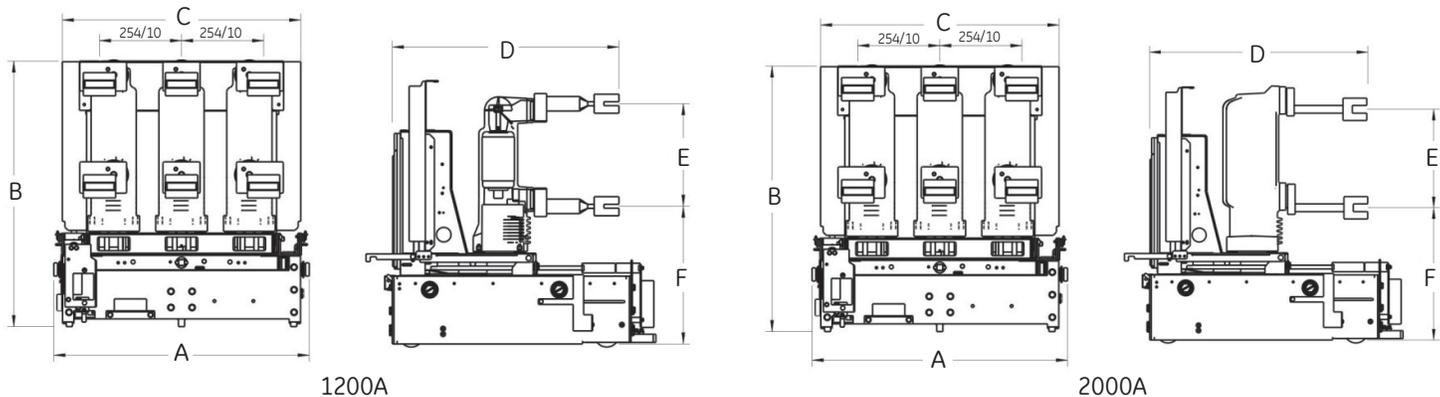
Specification	1200 / 20	1200 / 25	1200 / 31.5	1200 / 40	2000 / 40	3000 / 40†
Rated Continuous Current (A)	1200	1200	1200	1200	2000	
Rated Maximum Voltage (kV)	15	15	4.76 / 8.25 / 15	4.76 / 8.25 / 15	4.76 / 8.25 / 15	
Rated Power Frequency (1 min)	36	36	19 / 36 / 36	19 / 36 / 36	19 / 36 / 36	
Rated Lighting Impulse (1.2/50µs)	95	95	60 / 95 / 95	60 / 95 / 95	60 / 95 / 95	
Rated Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	
Rated Short Time Withstand (kA)	20	25	31.5	40	40	
Rated Peak Value Withstand Current (kAp)	52	65	82	104	104	
Rated Duration Time for Short-Circuit (s)	2	2	2	2	2	

Dimensions

Weight (kg/lbs)	210 / 463	210 / 463	210 / 463	210 / 463	270 / 596	
Phase to phase Distance (in)	10	10	10	10	10	
A (in)	31.1	31.1	31.1	31.1	31.1	
B (in)	32.5	32.5	32.5	32.5	32.5	
C (in)	29.1	29.1	29.1	29.1	29.1	
D (in)	27.6	27.6	27.6	27.6	27.6	
E (in)	12.5	12.5	12.5	12.5	12.5	
F (in)	16.8	16.8	16.8	16.8	16.8	

†Available 2Q16

Rear/Side View



MVA to kA Conversion

MVA	=	kA
4.16kV-250MVA	=	40kA
4.16kV-350MVA	=	50kA
4.16kV-450MVA	=	63kA
7.2kV-500MVA	=	50kA
7.2kV-785MVA	=	63kA
13.8kV-500MVA	=	25kA
13.8kV-750MVA	=	40kA
13.8kV-1000MVA	=	50kA
13.8kV-1500MVA	=	63kA

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